

09/4 762

CRF Errors Corrected by the STIC Systems Branch

1652 OIPE

Serial Number: 09729133

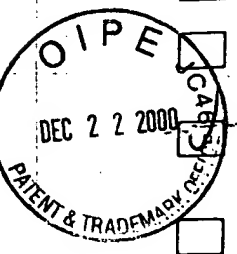
CRF Processing Date: 12/18/2002
Edited by: A
Verified by: A

ENTERED

RECEIVED

JAN 11 2001

TECH CENTER 1600/2900



- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☒ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☒ the prior application data; or ☐ other _____ #0
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: replaced PATENT No. w/ (H) DOCUMENT NUMBER: (globally)

RECEIVED
JAN 10 2001
TC 1100 MAIL ROOM/CHWS

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,133DATE: 12/29/2000
TIME: 05:00:08

INPUT SET: S36258.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

RECEIVED

JAN 11 2001

SEQUENCE LISTING

TECH CENTER 1600/2900

(1) General Information

(i) APPLICANT: Bryan, Bruce

(ii) TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE

(iii) NUMBER OF SEQUENCES: 14

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Heller Ehrman White & McAuliffe

(B) STREET: 4250 Executive Square, 7th Floor

(C) CITY: La Jolla

(D) STATE: CA

(E) COUNTRY: USA

(F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette

(B) COMPUTER: IBM Compatible

(C) OPERATING SYSTEM: DOS

(D) SOFTWARE: FastSEQ Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/444,762

(B) FILING DATE: 11-22-99

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/757,046

(B) FILING DATE: 11-25-96

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/597,274

(B) FILING DATE: 02-06-96

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Seidman, Stephanie L

(B) REGISTRATION NUMBER: 33,779

TC 1700 MAIL ROOM

JAN 10 2001

RECEIVED

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,133DATE: 12/29/2000
TIME: 05:00:09

INPUT SET: S36258.raw

47 (C) REFERENCE/DOCKET NUMBER: 24727-105F
48
49 (ix) TELECOMMUNICATION INFORMATION:
50 (A) TELEPHONE: 619-450-8400
51 (B) TELEFAX: 619-450-8499
52 (C) TELEX:
53
54 (2) INFORMATION FOR SEQ ID NO:1:
55
56 (i) SEQUENCE CHARACTERISTICS:
57 (A) LENGTH: 1196 base pairs
58 (B) TYPE: nucleic acid
59 (C) STRANDEDNESS: single
60 (D) TOPOLOGY: linear
61
62 (ii) MOLECULE TYPE: cDNA
63
64 (vi) ORIGINAL SOURCE:
65
66 (ix) FEATURE:
67
68 (A) NAME/KEY: Coding Sequence
69 (B) LOCATION: 1...942
70 (D) OTHER INFORMATION: Renilla Reinformis Luciferase
71
72 (x) PUBLICATION INFORMATION:
73
74 (H) DOCUMENT NUMBER: 5,418,155
75
76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
77
78 AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG 48
79 Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg
80 1 5 10 15
81
82 ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT 96
83 Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val
84 20 25 30
85
86 CTT GAT TCA TTT ATT AAT TAT TAT GAT TCA GAA AAA CAT GCA GAA AAT 144
87 Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn
88 35 40 45
89
90 GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA 192
91 Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg
92 50 55 60
93
94 CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT 240
95 His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp
96 65 70 75 80
97
98 CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG 288
99 Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 05:00:09

INPUT SET: S36258.raw

	85	90	95	
100				
101				
102	TTA CTT GAT CAT TAC AAA TAT CTT ACT GCA TGG TTG AAC TTC TTA ATT			336
103	Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Leu Asn Phe Leu Ile			
104	100	105	110	
105				
106	TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG			384
107	Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu			
108	115	120	125	
109				
110	GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT			432
111	Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val			
112	130	135	140	
113				
114	CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT			480
115	His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro			
116	145	150	155	160
117				
118	GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA			528
119	Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys			
120	165	170	175	
121				
122	ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA			576
123	Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys			
124	180	185	190	
125				
126	ATC ATG AGA AAG TTA GAA CCA GAA GAA TTT GCA GCA TAT CTT GAA CCA			624
127	Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro			
128	195	200	205	
129				
130	TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT			672
131	Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg			
132	210	215	220	
133				
134	GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT			720
135	Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val			
136	225	230	235	240
137				
138	AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG			768
139	Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met			
140	245	250	255	
141				
142	TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC			816
143	Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly			
144	260	265	270	
145				
146	GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT			864
147	Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His			
148	275	280	285	
149				
150	TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG			912
151	Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser			
152	290	295	300	

RECEIVED

JAN 11 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 05:00:09

INPUT SET: S36258.raw

153
154 TTC GTT GAG CGA GTT CTC AAA AAT GAA CAA TAA TTACTTTGGT TTTTATTTA 965
155 Phe Val Glu Arg Val Leu Lys Asn Glu Gln
156 305 310
157
158 CATTTCCTCCC GGGTTTAATA ATATAAATGT CATTTCACAC AATTTTATTT TAACTGAATA 1025
159 TTTACAGGG AACATTCATA TATGTTGATT AATTAGCTC GAACCTTACT CTGTCATATC 1085
160 ATTTTGAAT ATTACCTCTT TCAATGAAAC TTTATAAACA GTGGTTCAAT TAATTAATAT 1145
161 ATATTATAAT TACATTTGTT ATGTAATAAA CTCGGTTTTA TTATAAAAAA A 1196
162

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1822 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: Coding Sequence
- (B) LOCATION: 1...1665
- (D) OTHER INFORMATION: Cypridina hilgendorffii luciferase

(x) PUBLICATION INFORMATION:

- (H) DOCUMENT NUMBER: EP 0 387 355 TORAY

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

184
185 ATG AAG CTA ATA ATT CTG TCT ATT ATA TTG GCC TAC TGT GTC ACA GTC 48
186 Met Lys Leu Ile Ile Leu Ser Ile Ile Leu Ala Tyr Cys Val Thr Val
187 1 5 10 15
188
189 AAC TGC CAG GAT GCA TGT CCT GTA GAA GCT GAA GCA CCG TCA AGT ACA 96
190 Asn Cys Gln Asp Ala Cys Pro Val Glu Ala Glu Ala Pro Ser Ser Thr
191 20 25 30
192
193 CCA ACA GTC CCA ACA TCT TGT GAA GCT AAA GAA GGA GAA TGT ATC GAT 144
194 Pro Thr Val Pro Thr Ser Cys Glu Ala Lys Glu Gly Glu Cys Ile Asp
195 35 40 45
196
197 ACC AGA TGC GCA ACA TGT AAA CGA GAC ATA CTA TCA GAC GGA CTG TGT 192
198 Thr Arg Cys Ala Thr Cys Lys Arg Asp Ile Leu Ser Asp Gly Leu Cys
199 50 55 60
200
201 GAA AAT AAA CCA GGG AAG ACA TGC TGT AGA ATG TGC CAG TAT GTA ATT 240
202 Glu Asn Lys Pro Gly Lys Thr Cys Cys Arg Met Cys Gln Tyr Val Ile
203 65 70 75 80
204
205 GAA TCC AGA GTA GAA GCT GCT GGA TAT TTT AGA ACG TTT TAC GCC AAA 288

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 05:00:10

INPUT SET: S36258.raw

206	Glu Ser Arg Val Glu Ala Ala Gly Tyr Phe Arg Thr Phe Tyr Ala Lys	
207	85 90 95	
208		
209	AGA TTT AAT TTT CAG GAA CCT GGT AAA TAT GTG CTG GCT CGA GGA ACC	336
210	Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr	
211	100 105 110	
212		
213	AAG GGT GGC GAC TGG TCT GTA ACC CTC ACC ATG GAG AAT CTA GAT GGA	384
214	Lys Gly Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly	
215	115 120 125	
216		
217	CAG AAG GGA GCT GTA CTG ACT AAG ACA ACA CTG GAG GTA GTA GGA GAC	432
218	Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Val Gly Asp	
219	130 135 140	
220		
221	GTA ATA GAC ATT ACT CAA GCT ACT GCA GAT CCT ATC ACA GTT AAC GGA	480
222	Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly	
223	145 150 155 160	
224		
225	GGA GCT GAC CCA GTT ATC GCT AAC CCG TTC ACA ATT GGT GAG GTG ACC	528
226	Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr	
227	165 170 175	
228		
229	ATT GCT GTT GTC GAA ATA CCC GGC TTC AAT ATT ACA GTC ATC GAA TTC	576
230	Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe	
231	180 185 190	
232		
233	TTT AAA CTA ATC GTG ATA GAT ATT CTG GGA GGA AGA TCT GTG AGA ATT	624
234	Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile	
235	195 200 205	
236		
237	GCT CCA GAC ACA GCA AAC AAA GGA CTG ATA TCT GGT ATC TGT GGT AAT	672
238	Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn	
239	210 215 220	
240		
241	CTG GAG ATG AAT GAC GCT GAT GAC TTT ACT ACA GAC GCA GAT CAG CTG	720
242	Leu Glu Met Asn Asp Ala Asp Asp Phe Thr Thr Asp Ala Asp Gln Leu	
243	225 230 235 240	
244		
245	GCG ATC CAA CCC AAC ATA AAC AAA GAG TTC GAC GGC TGC CCA TTC TAC	768
246	Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr	
247	245 250 255	
248		
249	GGG AAT CCT TCT GAT ATC GAA TAC TGC AAA GGT CTC ATG GAG CCA TAC	816
250	Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr	
251	260 265 270	
252		
253	AGA GCT GTA TGT CGT AAC AAT ATC AAC TTC TAC TAT TAC ACT CTG TCC	864
254	Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Tyr Thr Leu Ser	
255	275 280 285	
256		
257	TGC GCC TTC GCT TAC TGT ATG GGA GGA GAA GAA AGA GCT AAA CAC GTC	912
258	Cys Ala Phe Ala Tyr Cys Met Gly Gly Glu Glu Arg Ala Lys His Val	

RECEIVED

JAN 11 2001

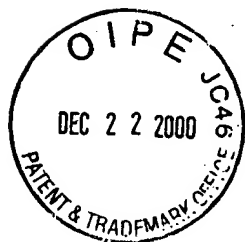
TECH CENTER 1600/2300

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 05:00:10

INPUT SET: S36258.raw



Line	Error	Original Text
------	-------	---------------

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 04:50:01



INPUT SET: S36258.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46

(1) General Information

(i) APPLICANT: Bryan, Bruce

(ii) TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE

(iii) NUMBER OF SEQUENCES: 14

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Heller Ehrman White & McAuliffe

(B) STREET: 4250 Executive Square, 7th Floor

(C) CITY: La Jolla

(D) STATE: CA

(E) COUNTRY: USA

(F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette

(B) COMPUTER: IBM Compatible

(C) OPERATING SYSTEM: DOS

(D) SOFTWARE: FastSEQ Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/444,762

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/444,762

(B) FILING DATE: 11-22-99

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/757,046

(B) FILING DATE: 11-25-96

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/597,274

(B) FILING DATE: 02-06-96

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Seidman, Stephanie L

(B) REGISTRATION NUMBER: 33,779

-->

delete

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,133DATE: 12/29/2000
TIME: 04:50:01

INPUT SET: S36258.raw

47 (C) REFERENCE/DOCKET NUMBER: 24727-105F

48

49 (ix) TELECOMMUNICATION INFORMATION:

50 (A) TELEPHONE: 619-450-8400

51 (B) TELEFAX: 619-450-8499

52 (C) TELEX:

53

54 (2) INFORMATION FOR SEQ ID NO:1:

55

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 1196 base pairs

58 (B) TYPE: nucleic acid

59 (C) STRANDEDNESS: single

60 (D) TOPOLOGY: linear

61

62 (ii) MOLECULE TYPE: cDNA

63

64 (vi) ORIGINAL SOURCE:

65

66 (ix) FEATURE:

67

68 (A) NAME/KEY: Coding Sequence

69 (B) LOCATION: 1...942

70 (D) OTHER INFORMATION: Renilla Reinformis Luciferase

71

72 (x) PUBLICATION INFORMATION:

73

74 (H) *DOCUMENT NUMBER*
~~PATENT NO.~~ : 5,418,155

75

76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

77

78 AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG 48

79 Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg

80 1 5 10 15

81

82 ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT 96

83 Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val

84 20 25 30

85

86 CTT GAT TCA TTT ATT AAT TAT TAT GAT TCA GAA AAA CAT GCA GAA AAT 144

87 Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn

88 35 40 45

89

90 GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA 192

91 Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg

92 50 55 60

93

94 CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT 240

95 His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp

96 65 70 75 80

97

98 CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG 288

99 Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg

RECEIVED

JAN 11 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 04:50:02

INPUT SET: S36258.raw

	85	90	95	
100				
101				
102	TTA CTT GAT CAT TAC AAA TAT CTT ACT GCA TGG TTG AAC TTC TTA ATT			336
103	Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Leu Asn Phe Leu Ile			
104	100	105	110	
105				
106	TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG			384
107	Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu			
108	115	120	125	
109				
110	GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT			432
111	Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val			
112	130	135	140	
113				
114	CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT			480
115	His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro			
116	145	150	155	160
117				
118	GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA			528
119	Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys			
120	165	170	175	
121				
122	ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA			576
123	Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys			
124	180	185	190	
125				
126	ATC ATG AGA AAG TTA GAA CCA GAA GAA TTT GCA GCA TAT CTT GAA CCA			624
127	Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro			
128	195	200	205	
129				
130	TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT			672
131	Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg			
132	210	215	220	
133				
134	GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT			720
135	Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val			
136	225	230	235	240
137				
138	AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG			768
139	Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met			
140	245	250	255	
141				
142	TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC			816
143	Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly			
144	260	265	270	
145				
146	GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT			864
147	Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His			
148	275	280	285	
149				
150	TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG			912
151	Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser			
152	290	295	300	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 04:50:02

INPUT SET: S36258.raw

```

153
154   TTC GTT GAG CGA GTT CTC AAA AAT GAA CAA TAA TTA CTTTGGT TTTTATTTA   965
155   Phe Val Glu Arg Val Leu Lys Asn Glu Gln
156   305                               310
157
158   CATTTTTCCTT GGGTTTAATA ATATAAATGT CATTTTCAAC AATTTTATTT TAACTGAATA   1025
159   TTTCACAGGG AACATTCATA TATGTTGATT AATTAGCTC GAACTTTACT CTGTCATATC   1085
160   ATTTTGAAT ATTACCTCTT TCAATGAAAC TTTATAAACA GTGGTCAAT TAATTAATAT   1145
161   ATATTATAAT TACATTGTT ATGTAATAAA CTCGGTTTTA TTATAAAAAA A   1196
162
163       (2) INFORMATION FOR SEQ ID NO:2:
164
165       (i) SEQUENCE CHARACTERISTICS:
166           (A) LENGTH: 1822 base pairs
167           (B) TYPE: nucleic acid
168           (C) STRANDEDNESS: single
169           (D) TOPOLOGY: linear
170
171       (ii) MOLECULE TYPE: cDNA
172
173       (ix) FEATURE:
174
175           (A) NAME/KEY: Coding Sequence
176           (B) LOCATION: 1...1665
177           (D) OTHER INFORMATION: Cypridina hilgendorffii luciferase
178
179       (x) PUBLICATION INFORMATION:
180
181       (H) document number!
182       PATENT NO. EP 0 387 355 TORAY
183
184       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
185
186   ATG AAG CTA ATA ATT CTG TCT ATT ATA TTG GCC TAC TGT GTC ACA GTC   48
187   Met Lys Leu Ile Ile Leu Ser Ile Ile Leu Ala Tyr Cys Val Thr Val
188   1                               5                               10                               15
189
190   AAC TGC CAG GAT GCA TGT CCT GTA GAA GCT GAA GCA CCG TCA AGT ACA   96
191   Asn Cys Gln Asp Ala Cys Pro Val Glu Ala Glu Ala Pro Ser Ser Thr
192   20                               25                               30
193
194   CCA ACA GTC CCA ACA TCT TGT GAA GCT AAA GAA GGA GAA TGT ATC GAT   144
195   Pro Thr Val Pro Thr Ser Cys Glu Ala Lys Glu Gly Glu Cys Ile Asp
196   35                               40                               45
197
198   ACC AGA TGC GCA ACA TGT AAA CGA GAC ATA CTA TCA GAC GGA CTG TGT   192
199   Thr Arg Cys Ala Thr Cys Lys Arg Asp Ile Leu Ser Asp Gly Leu Cys
200   50                               55                               60
201
202   GAA AAT AAA CCA GGG AAG ACA TGC TGT AGA ATG TGC CAG TAT GTA ATT   240
203   Glu Asn Lys Pro Gly Lys Thr Cys Cys Arg Met Cys Gln Tyr Val Ile
204   65                               70                               75                               80
205
206   GAA TCC AGA GTA GAA GCT GCT GGA TAT TTT AGA ACG TTT TAC GCC AAA   288

```

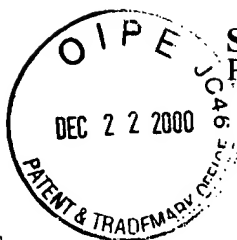
RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 04:50:02

INPUT SET: S36258.raw

206	Glu Ser Arg Val Glu Ala Ala Gly Tyr Phe Arg Thr Phe Tyr Ala Lys	
207	85 90 95	
208		
209	AGA TTT AAT TTT CAG GAA CCT GGT AAA TAT GTG CTG GCT CGA GGA ACC	336
210	Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr	
211	100 105 110	
212		
213	AAG GGT GGC GAC TGG TCT GTA ACC CTC ACC ATG GAG AAT CTA GAT GGA	384
214	Lys Gly Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly	
215	115 120 125	
216		
217	CAG AAG GGA GCT GTA CTG ACT AAG ACA ACA CTG GAG GTA GTA GGA GAC	432
218	Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Val Gly Asp	
219	130 135 140	
220		
221	GTA ATA GAC ATT ACT CAA GCT ACT GCA GAT CCT ATC ACA GTT AAC GGA	480
222	Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly	
223	145 150 155 160	
224		
225	GGA GCT GAC CCA GTT ATC GCT AAC CCG TTC ACA ATT GGT GAG GTG ACC	528
226	Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr	
227	165 170 175	
228		
229	ATT GCT GTT GTC GAA ATA CCC GGC TTC AAT ATT ACA GTC ATC GAA TTC	576
230	Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe	
231	180 185 190	
232		
233	TTT AAA CTA ATC GTG ATA GAT ATT CTG GGA GGA AGA TCT GTG AGA ATT	624
234	Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile	
235	195 200 205	
236		
237	GCT CCA GAC ACA GCA AAC AAA GGA CTG ATA TCT GGT ATC TGT GGT AAT	672
238	Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn	
239	210 215 220	
240		
241	CTG GAG ATG AAT GAC GCT GAT GAC TTT ACT ACA GAC GCA GAT CAG CTG	720
242	Leu Glu Met Asn Asp Ala Asp Asp Phe Thr Thr Asp Ala Asp Gln Leu	
243	225 230 235 240	
244		
245	GCG ATC CAA CCC AAC ATA AAC AAA GAG TTC GAC GGC TGC CCA TTC TAC	768
246	Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr	
247	245 250 255	
248		
249	GGG AAT CCT TCT GAT ATC GAA TAC TGC AAA GGT CTC ATG GAG CCA TAC	816
250	Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr	
251	260 265 270	
252		
253	AGA GCT GTA TGT CGT AAC AAT ATC AAC TTC TAC TAT TAC ACT CTG TCC	864
254	Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Tyr Thr Leu Ser	
255	275 280 285	
256		
257	TGC GCC TTC GCT TAC TGT ATG GGA GGA GAA GAA AGA GCT AAA CAC GTC	912
258	Cys Ala Phe Ala Tyr Cys Met Gly Gly Glu Glu Arg Ala Lys His Val	

PAGE: 1



SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/729,133

DATE: 12/29/2000
TIME: 04:50:03

INPUT SET: S36258.raw

Line	Error	Original Text
26	Wrong application Serial Number	(A) APPLICATION NUMBER: 09/444,762

RECEIVED
JAN 10 2001
TC 1700 MAIL ROOM